

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE


Applicant(s): Andrew Carl Miner et al.

Title: COOLING OF ELECTRONICS BY ELECTRICALLY CONDUCTING FLUIDS

Application No.: 10/768,767 Filed: January 30, 2004

Examiner: Teresa J. Walberg Group Art Unit: 3742

Atty. Docket No.: 089-0001-1 Confirmation No.: 7044

January 19, 2005

Mail Stop Amendment  
COMMISSIONER FOR PATENTS  
P.O. Box 1450  
Alexandria, VA 22313-1450

**INFORMATION DISCLOSURE STATEMENT**  
**37 C.F.R. § 1.97(b)**

Dear Sir:

Pursuant to 37 C.F.R. § 1.56, § 1.97 and § 1.98, the undersigned brings to the Examiner's attention in the above-identified application the patents, publications, applications or other information identified in the attached:

- ☒ Form(s) PTO/SB/08A (2 page(s), with copy of no reference(s)).
- ☒ Form(s) PTO/SB/08B (1 page(s), with copy of 5 reference(s)).
- ☐ Listing of Pending Applications (N/A page(s), with copy of no application(s)).
- ☐ Other: N/A

Citation of such information shall not be construed as (i) an admission that the information necessarily is, or corresponds to, prior art with respect to the instant invention, (ii) a representation that a search has been made, other than as described herein, or (iii) an admission that the information cited herein is, or is considered to be, material to patentability as defined in § 1.56(b).

For each item of information listed that is not in the English language, the undersigned has provided a concise explanation of the relevance through (i) an English language abstract, (ii) an English language equivalent application, or (iii) if cited in a search report or other action by a foreign patent office in a counterpart foreign application, an English language version of the search report or action that indicates the degree of relevance found by the foreign office.

CERTAIN COPIES NOT INCLUDED

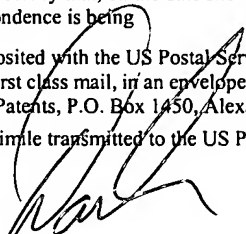
Pursuant to operative regulations, certain copies need not be provided and corresponding information is identified in this Information Disclosure Statement by citation only. In particular,

- ☒ In accordance with 37 C.F.R. § 1.98(a)(2)(ii), copies of cited U.S. Patents and U.S. Patent Application Publications are not included.
- ☐ Certain information was submitted to, or cited by, the Office in Application No(s). N/A, filed N/A, to which the above-identified application claims priority under 35 U.S.C. § 120. In accordance with 37 C.F.R. § 1.98(d), copies of that information are not included.
- ☐ Pursuant to 1287 OG 163 (October 19, 2004), for those cited pending U.S. patent applications filed (or which entered the national stage under 35 U.S.C. § 371) on or after June 30, 2003 or which are otherwise stored in the USPTO's Image File Wrapper system, copies are not included.

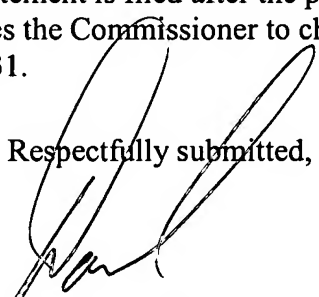
FEE AUTHORIZATION

- ☐ This Information Disclosure Statement is filed within three months of the filing date of a national application other than a continued prosecution application under § 1.53(d) or within three months of entry of the national stage as set forth in § 1.491 in an international application. Therefore, no fee is required.
- ☒ The undersigned believes that this Information Disclosure Statement is being filed before the mailing date of a first Office action on the merits or before the mailing date of a first Office action after the filing of a request for continued examination under § 1.114. Therefore, no fee is believed required.

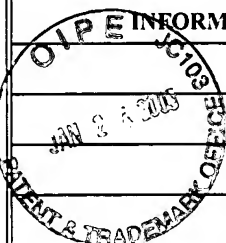
If however, this Information Disclosure Statement is filed after the period specified in § 1.97(b), the undersigned hereby authorizes the Commissioner to charge the fee set forth in § 1.17(p) to Deposit Account No. 50-0631.

<u>CERTIFICATE OF MAILING OR TRANSMISSION</u>	
I hereby certify that, on the date shown below, this correspondence is being	
<input checked="" type="checkbox"/> deposited with the US Postal Service with sufficient postage as first class mail, in an envelope addressed to Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.	
<input type="checkbox"/> facsimile transmitted to the US Patent and Trademark Office.	
 _____ David W. O'Brien	<u>19-Jan-04</u> _____ Date

Respectfully submitted,

  
 David W. O'Brien, Reg. No. 40,107  
 Attorney for Applicant(s)  
 (512) 338-6314  
 (512) 338-6301 (fax)

EXPRESS MAIL LABEL: \_\_\_\_\_

PTO/SB/08A (Substitute for form 1449/PTO)				Attorney Docket No.: 089-0001-1		
				Application No.: 10/768,767		
 INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Use several sheets if necessary)				First Named Inventor: Andrew Carl Miner et al.		
				Filing Date: January 30, 2004		
				Group Art Unit: 3742		
				Examiner Name: Teresa J. Walberg		
				Date Submitted: January 19, 2005		
<b>U.S. PATENT DOCUMENTS</b>						
Examiner Initials*	Cite No. <sup>1</sup>	Document Number Number-Kind Code <sup>2</sup> (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	
		US-3,654,528	04-04-1972	Barkan		
		US-4,177,015	12-04-1979	Davidson		
		US-4,065,936	01-03-1978-	Fenton		
		US-4,688,147	08-18-1987	Ono		
		US-5,184,211	02-02-1993	Fox		
		US-5,943,211	04-24-1999	Havey		
		US-5,993,164	11-30-1999	Diaz		
		US-6,021,844	02-08-2000	Batchelder		
		US-6,065,293	05-23-2000	Ghoshal		
		US-6,105,381	08-22-2000	Ghoshal		
		US-6,119,463	09-19-2000	Bell		
		US-6,161,388	12-19-2000	Ghoshal		
		US-6,175,495	01-16-2001	Batchelder		
		US-6,222,113	04-24-2001	Ghoshal		
		US-6,256,996	07-10-2001	Ghoshal		
<b>FOREIGN PATENT DOCUMENTS</b>						
Examiner Initials*	Cite No. <sup>1</sup>	Foreign Patent Document Country Code <sup>3</sup> -Number <sup>4</sup> -Kind Code <sup>5</sup> (if known)	Publication Date MM-DD-YYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages Or Relevant Figures Appear	T <sup>6</sup>
		JP06188582A	07-08-1994	Chikugi et al.		
Examiner Signature			Date Considered			

\*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

<sup>1</sup> Applicant's unique citation designation number (optional).

<sup>2</sup> See Kinda Codes of USPTO Patent Documents at [www.uspto.gov](http://www.uspto.gov) or MPEP 901.04.

<sup>3</sup> Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3).

<sup>4</sup> For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document.

<sup>5</sup> Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16 if possible.

<sup>6</sup> Applicant is to place a check mark here if English language Translation is attached.

This collection of information is required by 37 CFR 1.97 and 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 123 and 37 CFR 1.14.

PTO/SB/08A (Substitute for form 1449/PTO)				Attorney Docket No.: 089-0001-1		
				Application No.: 10/768,767		
INFORMATION DISCLOSURE STATEMENT BY APPLICANT				First Named Inventor: Andrew Carl Miner et al.		
(Use several sheets if necessary)				Filing Date: January 30, 2004		
				Group Art Unit: 3742		
				Examiner Name: Teresa J. Walberg		
				Date Submitted: January 19, 2005		
U.S. PATENT DOCUMENTS						
Examiner Initials*	Cite No. <sup>1</sup>	Document Number Number-Kind Code <sup>2</sup> (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	
		US-6,266,962	07-31-2001	Ghoshal		
		US-6,282,907	09-04-2001	Ghoshal		
		US-6,384,312	05-07-2002	Ghoshal		
		US-6,452,740	03-07-2002	Ghoshal		
		US-6,474,074	05-30-2002	Ghoshal		
		US-6,588,217	07-08-2003	Ghoshal		
		US-6,597,544	07-22-2003	Ghoshal		
		US-6,598,403	07-29-2003	Ghoshal		
		US-6,598,405	07-29-2003	Bell		
		US-6,613,602	09-02-2003	Cooper et al.		
		US-6,614,109	09-02-2003	Cordes et al.		
		US-6,625,866	08-19-2003	Bell		
		US-6,658,861	12-09-2003	Ghoshal et al.		
		US-6,672,076	01-06-2004	Bell		
		US 2004/0031514 A1	08-19-2003	Bell		
		US-6,712,258	03-30-2004	Ghoshal		
FOREIGN PATENT DOCUMENTS						
Examiner Initials*	Cite No. <sup>1</sup>	Foreign Patent Document Country Code <sup>3</sup> -Number <sup>4</sup> -Kind Code <sup>5</sup> (if known)	Publication Date MM-DD-YYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages Or Relevant Figures Appear	T <sup>6</sup>
Examiner Signature				Date Considered		

PTO/SB/08B (Substitute for form 1449/PTO)		Attorney Docket No.: 089-0001-1	
		Application No.: 10/768,767	
INFORMATION DISCLOSURE STATEMENT BY APPLICANT		First Named Inventor: Andrew Carl Miner et al.	
(Use several sheets if necessary)		Filing Date: January 30, 2004	
		Group Art Unit: 3742	
		Examiner Name: Teresa J. Walberg	
		Date Submitted: January 19, 2004	
NON PATENT LITERATURE DOCUMENTS			
Examiner Initial*	Cite No. <sup>1</sup>	Include name of author (in CAPITAL LETTERS), title of article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T <sup>2</sup>
	1	V. ZAKORDONETS and G. LOGINOV, "Thermoelectric figure of merit of monopolar semiconductors with finite dimensions," <i>Semiconductors</i> , vol. 31, pp. 265-267, March 1997.	
	2	D.M. ROWE (ed.), <i>CRC Handbook of Thermoelectrics</i> , CRC Press (New York), 1995, pp. 479-488.	
	3	ADIRAN BEJAN (ed.), <i>Advanced Engineering Thermodynamics</i> , 2nd Edition, John Wiley & Sons, Inc. (New York), 1997, pp. 675-682.	
	4	MICHAEL COEY and DENIS WEAIRE, "Magnets, Markets and Magic Cylinders", <i>The Industrial Physicist</i> , Volume 4, Number 3, September 1998, pp. 34-36.	
	5	Tellurex Corporation, "Frequently Asked Questions about Thermoelectric Power Generation," <a href="http://www.tellurex.com">http://www.tellurex.com</a> , © 2002, printed Dec. 1, 2004.	
Examiner Signature		Date Considered	

\*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

<sup>1</sup> Applicant's unique citation designation number (optional).

<sup>2</sup> Applicant is to place a check mark here if English language Translation is attached.

This collection of information is required by 37 CFR 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14.